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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,859	03/08/2004	Jonathon C. Stiff	2059/US/2	2439
20686	7590 02/23/2005		EXAM	INER
DORSEY & WHITNEY, LLP INTELLECTUAL PROPERTY DEPARTMENT 370 SEVENTEENTH STREET SUITE 4700			CUNNINGHAM, TERRY D	
			ART UNIT	PAPER NUMBER
			2816	
DENVER, CO	O 80202-5647		DATE MAILED: 02/23/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/796,859	STIFF ET AL.			
Office Action Summary	Examiner	Art Unit			
	Terry D. Cunningham	2816			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply be tir by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. (D) (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	<u>_</u> .				
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 01 November 2004 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 2004.	are: a)⊠ accepted or b)⊡ objec drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat ority documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
· .					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)				
Notice of Dransperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		ate Patent Application (PTO-152)			

Art Unit: 2816

DETAILED ACTION

Drawings

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The specification is objected to because page 10 is inconsistent in discussing which elements comprise the "positive feedback loop". Lines 3-5 recite elements for the "positive feedback loop" and then in lines 20-21 recites different elements. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 10-19 are rejected under 35 U.S.C. § 112, first paragraph, as based on a disclosure which is not enabling. Transistors M3, M6 and M8-M10 are deemed critical or essential to the practice of the invention but are not included in the claims. An arrangement lacking these

Art Unit: 2816

features is not enabled by the disclosure since it cannot be understood from the specification how the circuit will operate without such. *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976).

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 6, line 7, there is no antecedent for the "floating mirror".

Claims 7-9 are rejected for the reasons discussed above with claim 6.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Hosono et al. (USPAP 2001/0022527).

With respect to claims 1-4, the reference to Hosono et al. discloses, in Fig. 1, a circuit comprising: "a positive feedback loop (4a) coupled with a floating current mirror (Q51 and Q52)"; and "a negative feedback loop (Q54 and Q54), all connected and operating similarly as recited by Applicant..

Art Unit: 2816

With respect to claim 6 is, clearly the above circuit to Hosono et al. will provide the recited method.

Claims 10-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Applicant's prior art Fig. 1. Applicant's prior art Fig. 1 discloses "a current mirror including a first transistor (M5) and a second transistor (M4)"; "at least one resistor (RL) defining a voltage node (nbias)"; "a pull-down transistor (M1)"; and "an output transistor (M2)", all connected and operating similarly as recited by Applicant.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5 and 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hosono et al. (USPAP 2001/0022527). In the above discussed circuit of Hosono et al., such discloses bipolar transistors instead of MOSFET transistors. However, it is notoriously well known that bipolar transistors and MOSFET transistors are art recognized equivalents. Additionally, MOSFETs have the notoriously well-known advantage of reduced power consumption. Therefore, it would have been obvious for one skilled in the art to use MOSFET transistors in place of the bipolar transistors due to well-known equivalence and to obtain the expected result of reduced power consumption.

Application/Control Number: 10/796,859 Page 5

Art Unit: 2816

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terry Cunningham whose telephone number is 571-272-1742. The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC February 17, 2005 Terry D. Cunningh Primary Examiner

Art Unit 2816